We looked at several factors for the pump station layout, including cost, number of new buildings required, access, and location of pump station elements like odor control units and a standby generator with respect to the neighbors.

What's next?

In September, King County will complete final design for the pipeline. In October 2006, a contract for construction should be advertised for bid, and construction could start in late December. It will take about two years to finish the upgrade of the pump station and build the new pipeline.



All questions, suggestions and comments are welcome.

Please contact John Phillips at 206-296-4081 (TTY Relay: 711) or by e-mail: john.phillips@metrokc.gov

Alternative Formats On Request 206-296-4081 / 711 (TTY Relay



King County

Department of
Natural Resources and Parks
Wastewater Treatment Division
201 South Jackson Street

KSC-NR-0505 Seattle, WA 98104

Schedule

Design & Permitting

Force main & Pump Station

2005 2006 2007 2008

Pump station – spring 2007 to winter 2008 Forcemain – winter 2007 to fall 2008

Visit our Web site http://dnr.metrokc.gov/wtd/projects/bellevue/

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Bellevue Pump Station Upgrade

King County's Bellevue Pump Station, at the corner of Southeast Sixth Street and 102nd Avenue Southeast, needs to be upgraded to handle growing wastewater flows from the Bellevue area. The pump station is part of a regional wastewater system to protect public health and the environment.

Built in 1964, the facility pumps wastewater to the Sweyolocken Pump Station in Mercer Slough Park off Bellevue Way. From there, the wastewater is piped to the county's South Treatment Plant in Renton. Together, these two pump stations serve the central business district, Surrey Downs, west Bellevue and northwest Bellevue.

History

In 1958, the citizens of the region formed the Municipality of Metropolitan Seattle (Metro). The purpose of this agency was to clean up Lake Washington and other

water bodies in the region. In the early 1960s, Metro built a regional sewer network



including large pipes to move wastewater from the south and north end of Lake Washington and pump stations to move wastewater through the pipes to two regional treatment plants.

King County assumed the functions of Metro in 1994 and now operates the regional treatment plants in Renton and Seattle, 42 pump stations and 335 miles of pipe.



Areas served by the Sweyolocken and Bellevue Pump Station.

As part of the Regional Wastewater Services Plan passed by the King County Council in 1999, the entire wastewater system was evaluated for its ability to safely and adequately convey and treat the region's wastewater. Several King County pump stations are nearing the end of their ability to adequately pump the volume of wastewater from the areas they serve. Also, these older buildings must be updated to current seismic codes and for safety, odor control and reliability.



What's planned for the Bellevue Pump Station?

King County's Wastewater Treatment Division is planning two contracts for the Bellevue Pump Station:

- Pump station building upgrades
- New pipeline



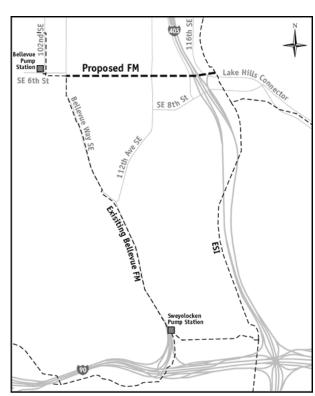
Pump Station Upgrades

The pump station will be upgraded with new; pumps, electrical, mechanical and odor control equipment; and standby generator. A new pump and generator buildings will be constructed to house the new equipment and meet current earthquake and building codes. King County will also improve access to the pump station for maintenance vehicles and workers. All the upgrades will be on King County property.

Pipeline Construction

King County has recently upgraded the Sweyolocken Pump Station, but because of space constraints at the site, it could not be upgraded enough to handle more flows from the Bellevue Pump Station. Therefore, 5300 feet of new pipe will be built between the Bellevue Pump Station and a large regional pipe near Interstate 405.

The pipeline will be installed using a method called horizontal directional drilling. As the name implies, crews will drill a hole underground from the pump station to Southeast Sixth Street at 112th Avenue Southeast. Another hole will be drilled from there, crossing under I-405, to the Lake Hills Connector near the Wilburton Trestle. From there, the pipe will be routed east to connect to the existing pipe that carries wastewater to the treatment plant in Renton.



The force main (FM) will be built from the pump station to Interstate 405. The existing force main flows along Bellevue Way. The Eastside Intercepter (ESI) carries the region's wastewater to the South Plant in Renton.

What will happen during construction?

Work areas will be at Southeast Sixth Street by the pump station, Southeast Sixth near the Bellevue Club and Lincoln Plaza and Brookside Building and the Lake Hills Connector by the Wilburton Trestle.

During the upgrade, there will be demolition work and construction of new structures. Like any remodeling project, noise and activities will be visible around the pump station. Partial closures may occur close to the pump station up to one-and-a-half years. King County will have proper traffic control to redirect traffic and make sure pedestrians are safe. King County staff will send out periodic construction notices to tell neighbors about activities for this project.

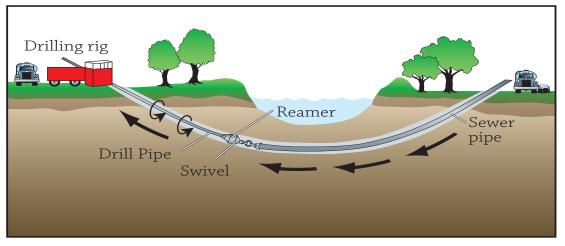
The pipeline work will also affect other neighborhoods along the route of the pipe. The drilling will occur mostly at a depth of 100 feet or greater. Homes, businesses and schools above the drilling unit should experience no impacts from the work, except for occasional surface monitoring during drilling. King County will negotiate easements with all property

owners above the pipeline.
Southeast Sixth will be affected near the pump station where the drilling rig will be located. Traffic routes will be modified on Southeast Sixth between 112th Avenue Southwest and 114th Avenue Southwest. King County has been working with property managers on Southeast Sixth to provide the best alternative for traffic to and from their office buildings. Lake Hills Connector will also be affected with a lane closure during the drilling operations. During construction, there will be noise around the drilling equipment.

How did we evaluate project alternatives?

The county's Wastewater Treatment Division evaluated other alternatives for the pipeline route as well as alternatives for the look and layout of the pump station.

King County chose this pipeline route after getting comments from the City of Bellevue. Major factors contributing to selecting this alternative were impact on residents and businesses, ability to get permits, impact on other utilities, impact on roads and traffic, and cost.



Horizontal directional drilling uses a drilling rig on the surface to install a pipe in a shallow underground arc. The drilling rig bores a pilot hole that's filled with fluid and then enlarges the hole to the final pipe size. Pipe is then pulled through the hole. Directional drilling often needs a large staging area so the pipe can be lined up before it's pulled into the hole.